

(b) Amendments to the Claims

A detailed listing of the claims is provided herewith which replaces all earlier versions.

1. (Currently Amended) A method for producing a mesostructured film comprising the steps, in sequence, of:

(a) preparing a reaction solution ~~containing comprising~~ (i) a tin-containing compound for forming mesostructured film which contains a tin oxide, and (ii) a surfactant and (iii) a solvent;

(b) applying the reaction solution onto a substrate having a capability of orienting a plurality of assemblies ~~an aggregate~~ of the surfactant in a predetermined direction; [[and]]

(c) retaining the substrate onto which the reaction solution has been applied in an atmosphere having a relative humidity from 10% to 30% to dry the solvent in the reaction solution; and

(d) after the solvent is dried, retaining the substrate in a water vapor-containing atmosphere having a relative humidity from 70% to 100% to orient the plurality of assemblies of the surfactant in the predetermined direction, thereby improving regularity of a mesostructure of the mesostructured film.

forming the mesostructured film having a plurality of the aggregates of the surfactant oriented in the predetermined direction while holding the substrate onto which the reaction solution has been applied in a water vapor-containing atmosphere having a relative humidity from 70% to 100%.

2. (Cancelled)

3. (Previously Presented) A method for producing a mesostructured film according to claim 1, wherein the tin-containing compound is a tin chloride.

4. (Cancelled)

5. (Currently Amended) A method for producing a mesostructured film according to claim 1, wherein the step of forming the mesostructured film having a plurality of ~~aggregates~~ assemblies of the surfactant oriented in the predetermined direction is performed at a temperature of 100°C or less.

6. - 16. (Cancelled)

17. (Currently Amended) A method for producing a porous film comprising the steps, in sequence, of:

(a) preparing a reaction solution containing (i) a tin-containing compound for a porous material which contains a tin oxide, [[and]] (ii) a surfactant and (iii) a solvent;

(b) applying the reaction solution onto a substrate having a capability of orienting a plurality of aggregates ~~an aggregate~~ of the surfactant in a predetermined direction;

(c) retaining the substrate onto which the reaction solution has been applied in an atmosphere having a relative humidity from 10% to 30% to dry the solvent in the reaction solution;

(d) after the solvent is dried, retaining the substrate in a water vapor-containing atmosphere having a relative humidity from 70% to 100% to orient the plurality of assemblies of the surfactant in the predetermined direction, thereby improving regularity of a mesostructure of the mesostructured film; and

forming the porous material having a plurality of the aggregates of the surfactant oriented in the predetermined direction while holding the substrate onto which the reaction solution has been applied in a water vapor-containing atmosphere having a relative humidity from 70% to 100%; and

(e) removing the surfactant to form a pore.